

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071723\
 Data File : VN078535.D
 Acq On : 17 Jul 2023 11:32
 Operator : JC\MD
 Sample : VN0717WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBL01

Quant Time: Jul 18 04:19:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

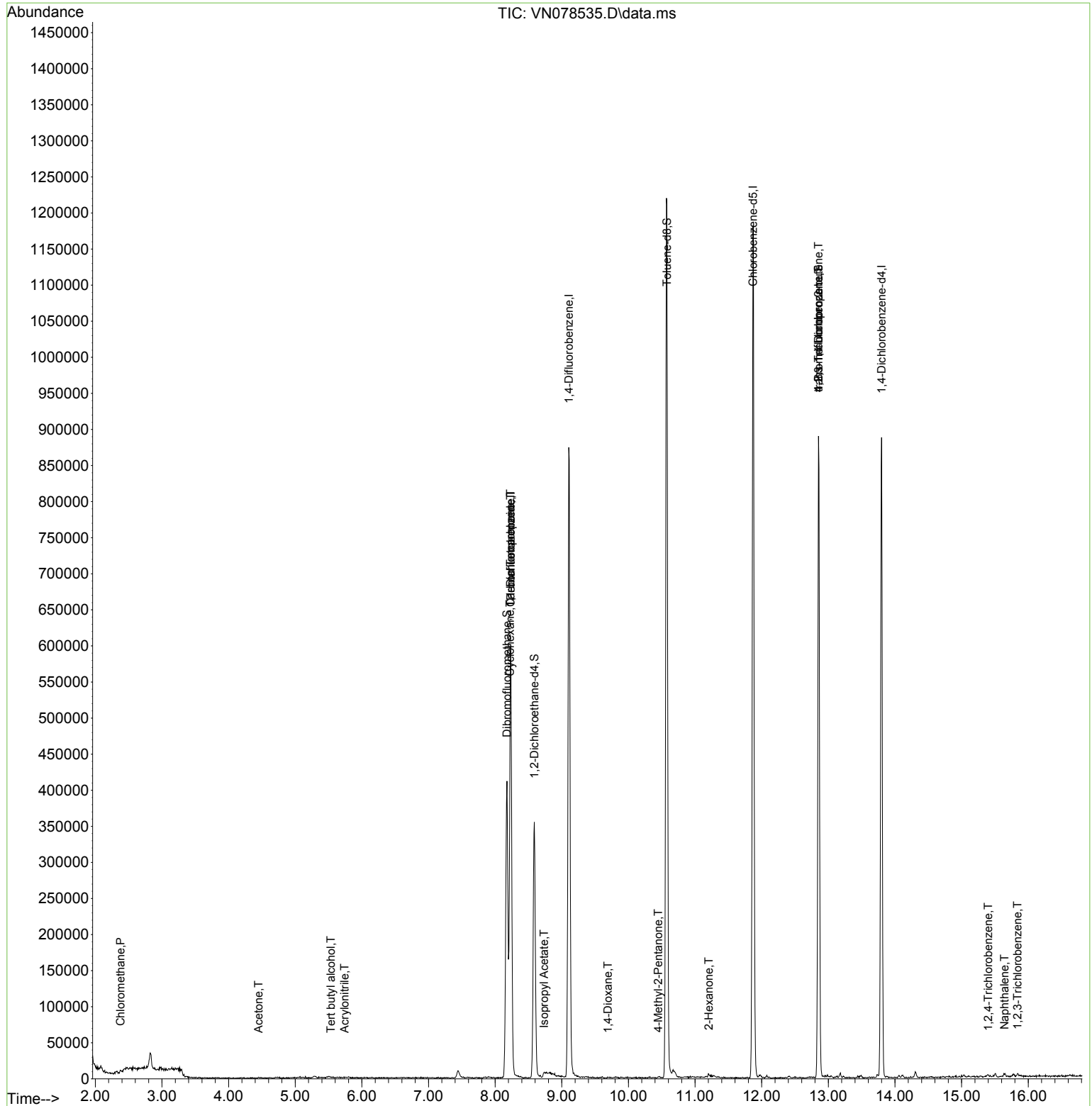
Internal Standards						
1) Pentafluorobenzene	8.235	168	437069	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	779919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	711675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	248261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	290169	49.522	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.040%		
35) Dibromofluoromethane	8.177	113	292814	55.307	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.620%		
50) Toluene-d8	10.576	98	905037	45.251	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	90.500%		
62) 4-Bromofluorobenzene	12.853	95	306008	49.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.340%		
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	1875	0.322	ug/l #	71
5) Bromomethane	2.971	94	3316	Below Cal	#	75
6) Chloroethane	3.095	64	490	Below Cal	#	43
11) Tert butyl alcohol	5.536	59	360	0.398	ug/l #	72
15) Acrylonitrile	5.741	53	828	0.363	ug/l #	49
16) Acetone	4.447	43	899	0.493	ug/l #	40
20) Methylene Chloride	5.283	84	1173	Below Cal	#	88
31) Cyclohexane	8.224	56	10038	1.268	ug/l #	58
36) 1,1-Dichloropropene	8.230	75	35478	4.641	ug/l #	49
38) Carbon Tetrachloride	8.230	117	44665	5.376	ug/l #	15
43) Isopropyl Acetate	8.735	43	5935	0.566	ug/l #	49
49) 1,4-Dioxane	9.694	88	54	0.509	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	1580	0.253	ug/l	99
59) 2-Hexanone	11.206	43	2400	0.541	ug/l	67
75) 1,1,2,2-Tetrachloroethane	12.947	83	781	Below Cal	#	66
76) 1,2,3-Trichloropropane	12.853	75	167607	27.931	ug/l #	1
77) Bromobenzene	12.988	156	637	Below Cal		65
81) trans-1,4-Dichloro-2-b...	12.853	75	167607	73.397	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.729	75	164	Below Cal	#	38
93) 1,2,4-Trichlorobenzene	15.400	180	859	0.302	ug/l #	86
94) Hexachlorobutadiene	15.500	225	776	Below Cal		81
95) Naphthalene	15.647	128	4571	0.470	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.841	180	1236	0.378	ug/l	77

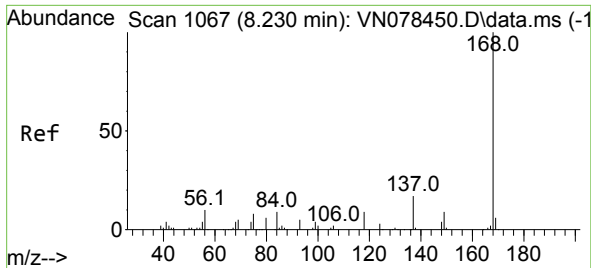
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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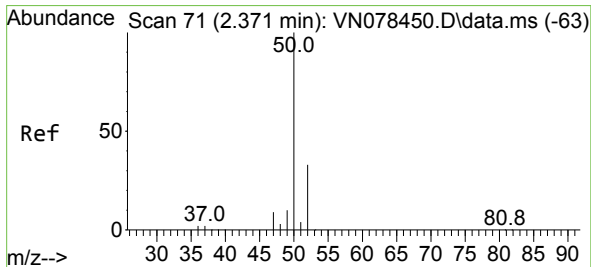
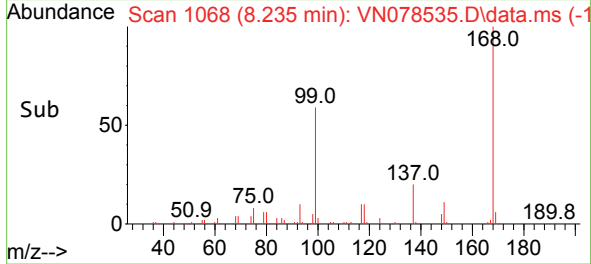
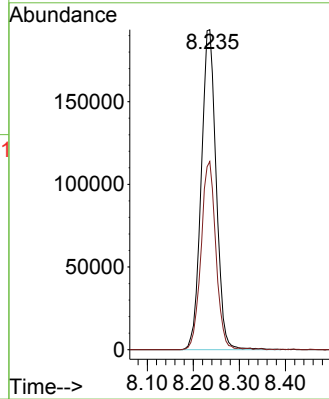
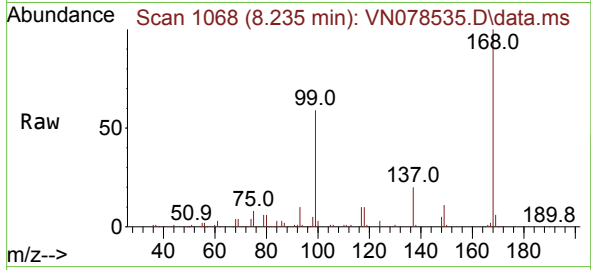




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

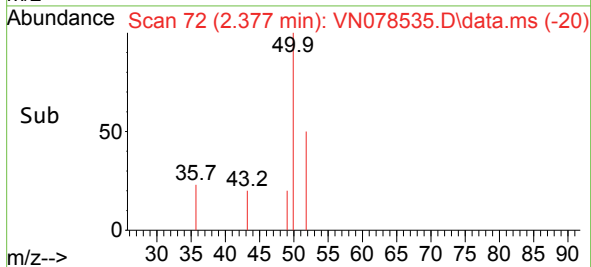
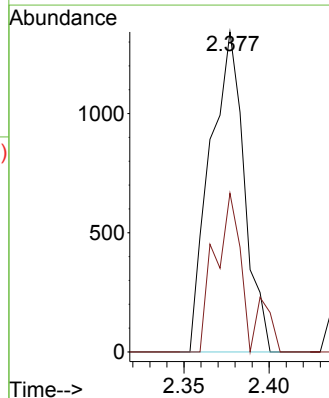
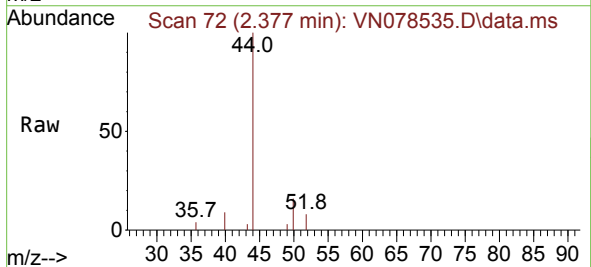
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

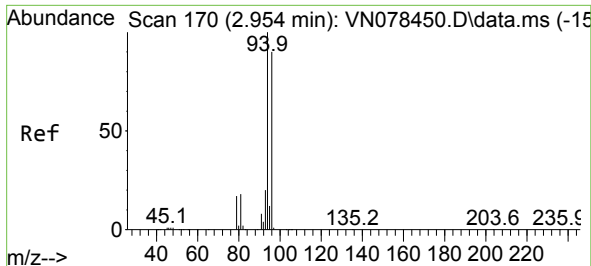
Tgt Ion:168 Resp: 437069
Ion Ratio Lower Upper
168 100
99 58.8 53.0 79.6



#3
Chloromethane
Concen: 0.322 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 50 Resp: 1875
Ion Ratio Lower Upper
50 100
52 49.6 26.5 39.7#

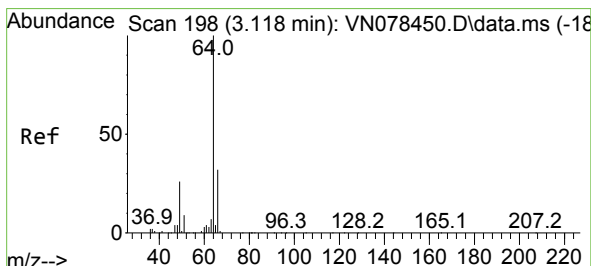
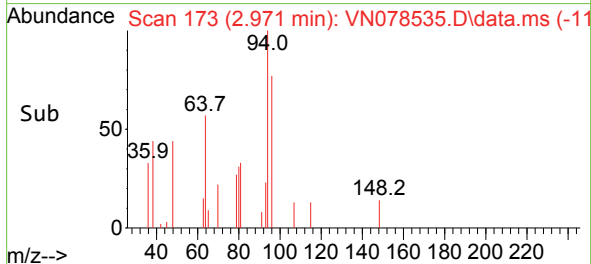
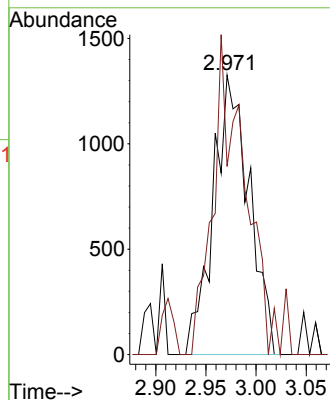
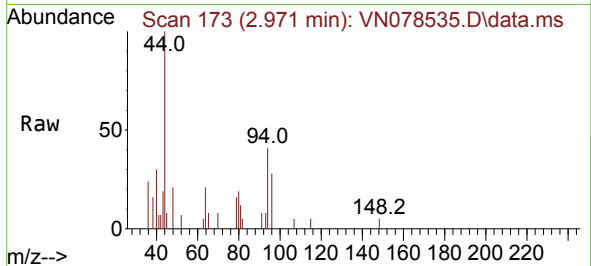




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

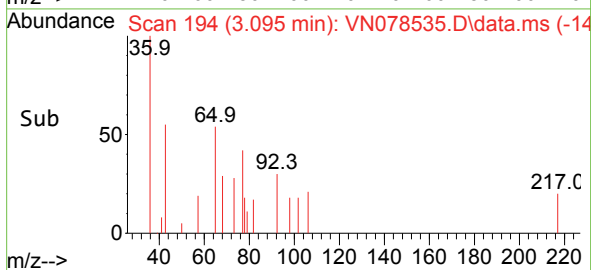
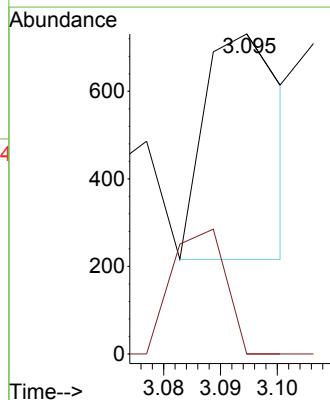
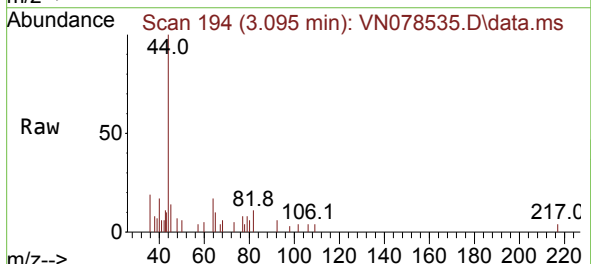
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

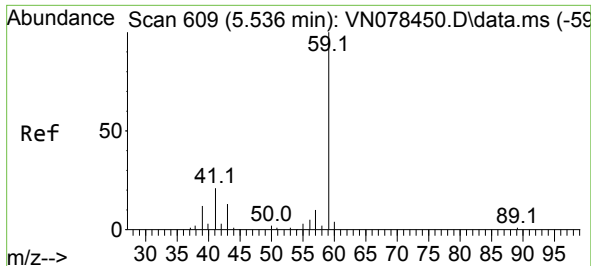
Tgt Ion: 94 Resp: 3316
Ion Ratio Lower Upper
94 100
96 67.3 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.095 min Scan# 194
Delta R.T. -0.023 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 64 Resp: 490
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

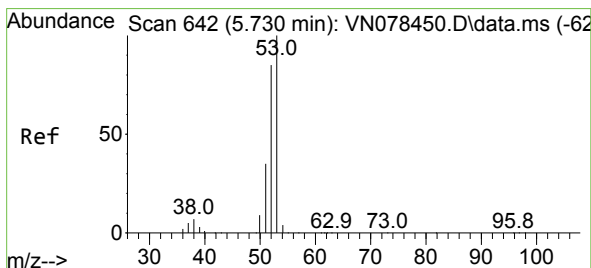
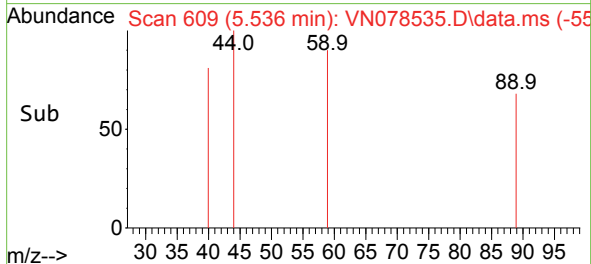
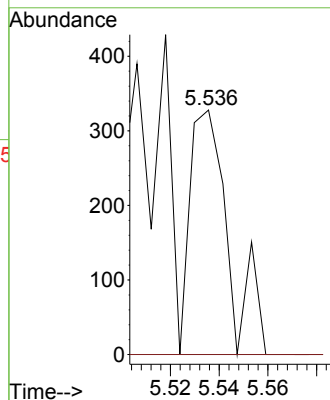
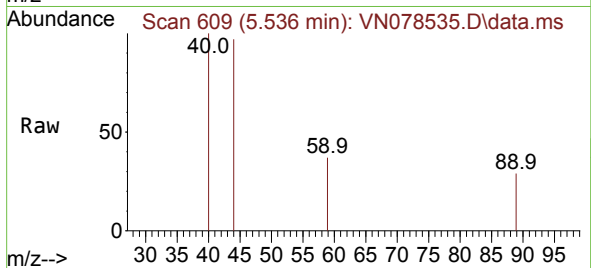




#11
Tert butyl alcohol
Concen: 0.398 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

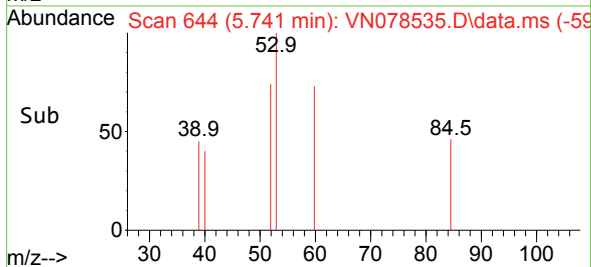
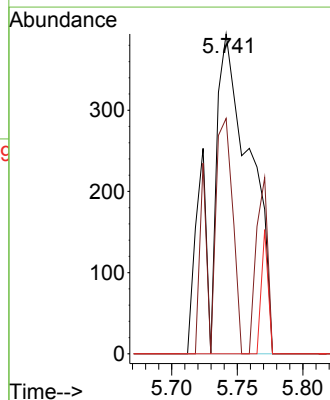
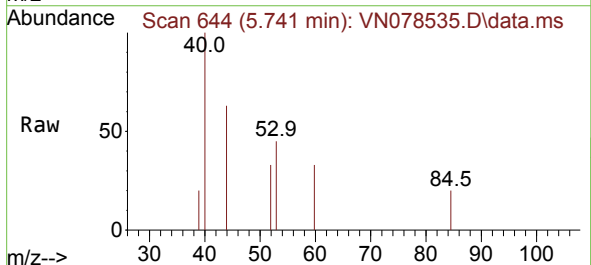
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

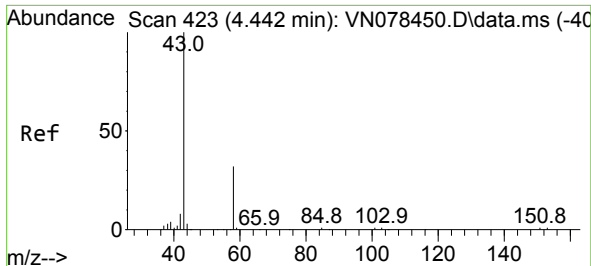
Tgt Ion: 59 Resp: 360
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#15
Acrylonitrile
Concen: 0.363 ug/l
RT: 5.741 min Scan# 644
Delta R.T. 0.011 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 53 Resp: 828
Ion Ratio Lower Upper
53 100
52 40.6 65.3 97.9#
51 0.0 28.9 43.3#

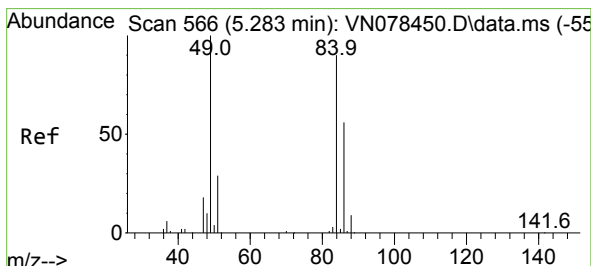
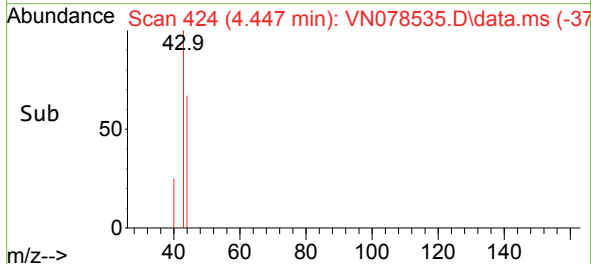
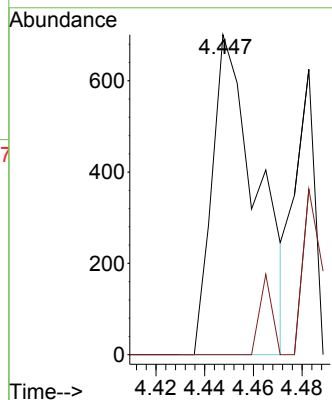
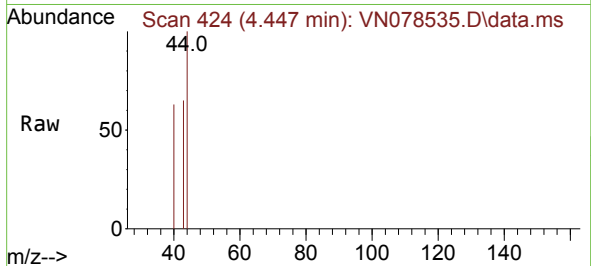




#16
Acetone
Concen: 0.493 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

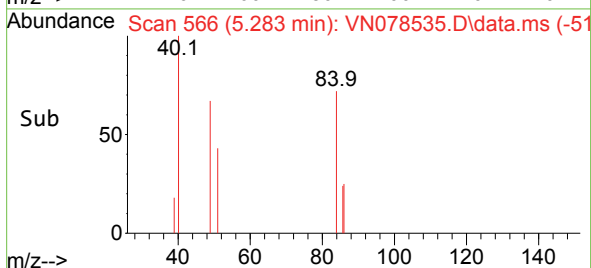
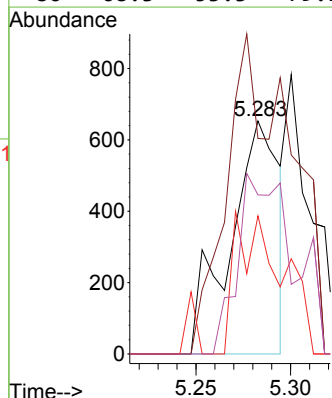
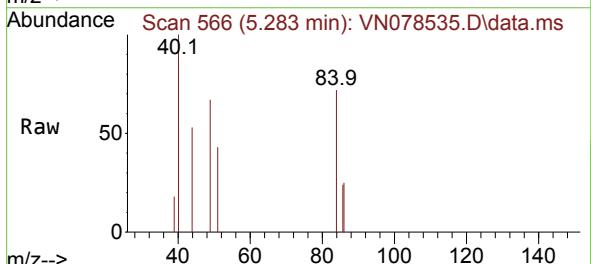
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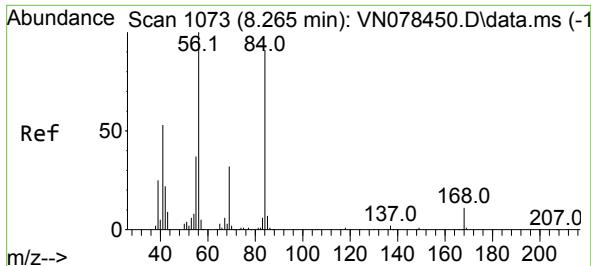
Tgt Ion: 43 Resp: 899
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 84 Resp: 1173
Ion Ratio Lower Upper
84 100
49 92.5 79.7 119.5
51 59.3 25.2 37.8#
86 68.3 53.3 79.9

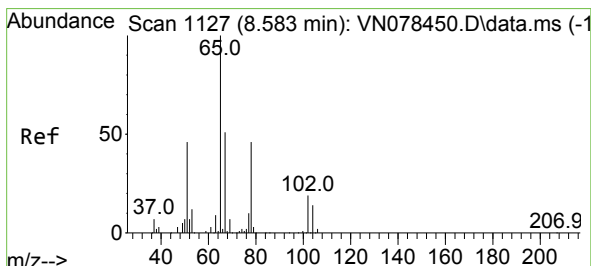
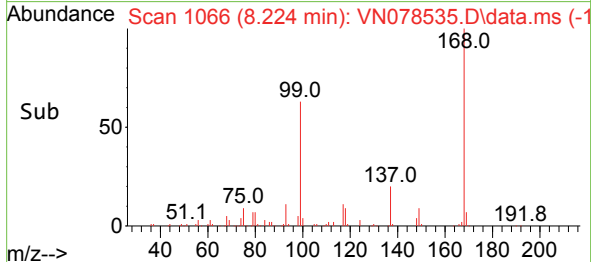
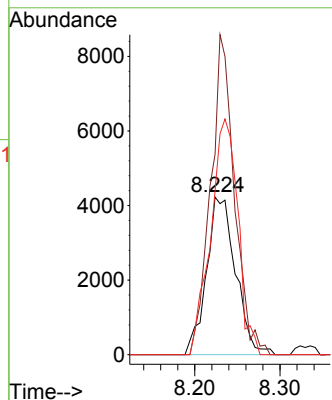
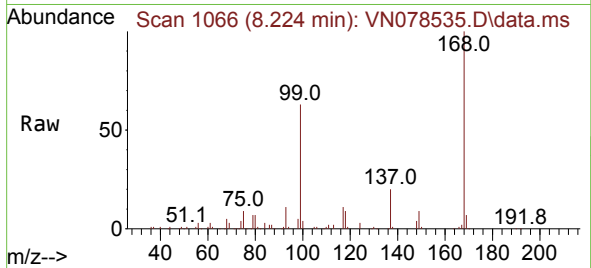




#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.224 min Scan# 1107
Delta R.T. -0.041 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

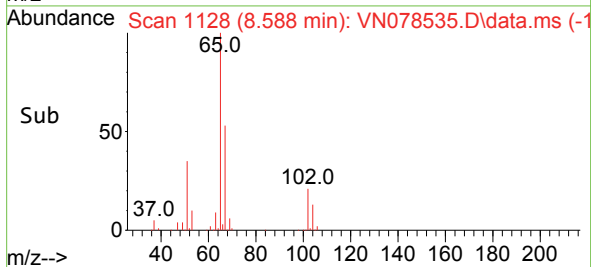
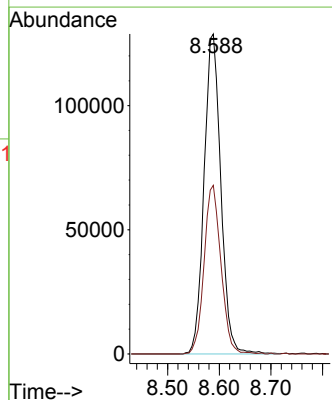
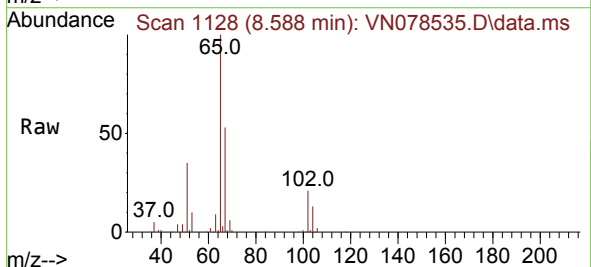
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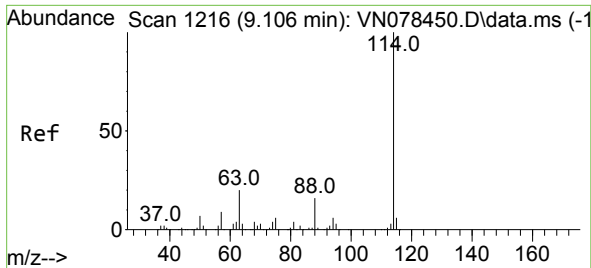
Tgt Ion: 56 Resp: 10038
Ion Ratio Lower Upper
56 100
69 127.3 26.8 40.2#
84 104.1 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 49.522 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 65 Resp: 290169
Ion Ratio Lower Upper
65 100
67 53.0 0.0 106.6

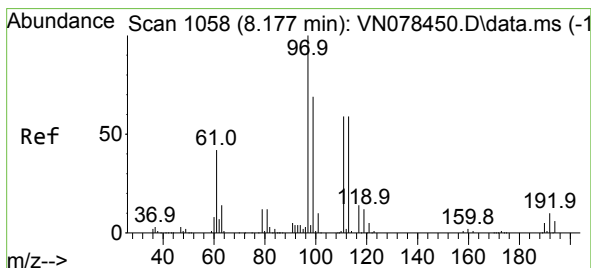
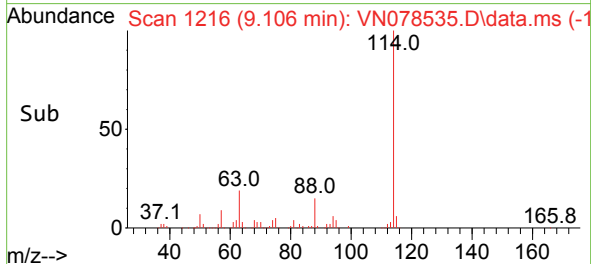
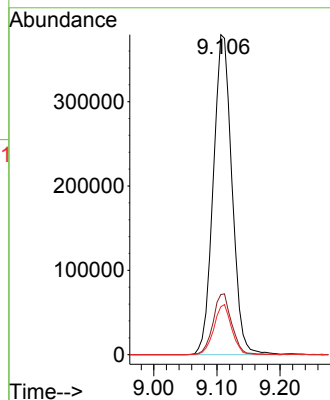
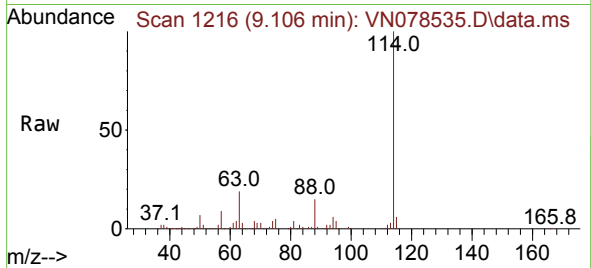




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

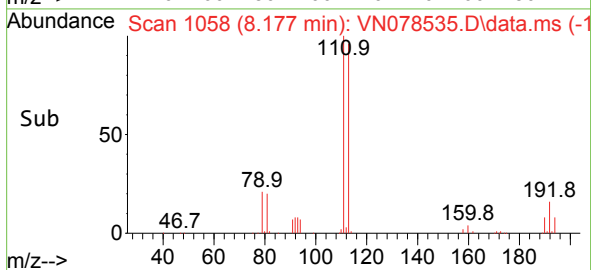
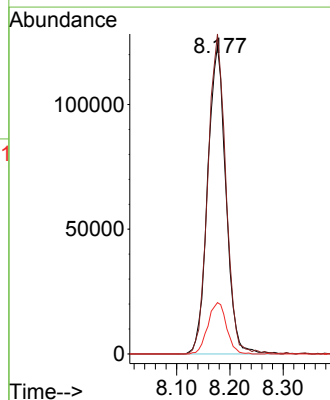
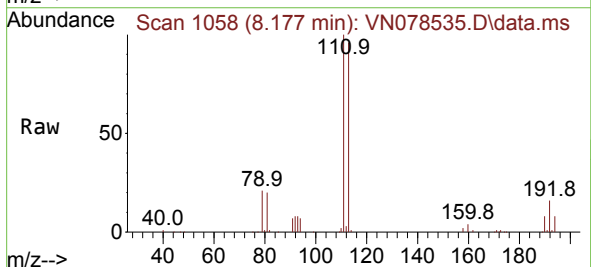
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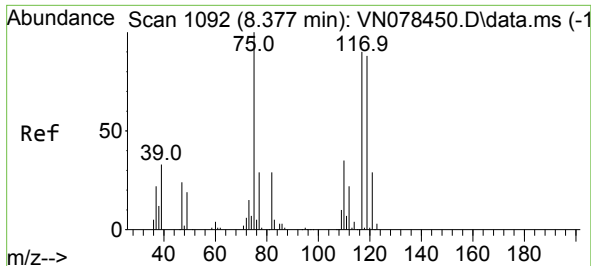
Tgt Ion:114 Resp: 779919
Ion Ratio Lower Upper
114 100
63 18.8 0.0 36.4
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 55.307 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion:113 Resp: 292814
Ion Ratio Lower Upper
113 100
111 102.6 82.6 123.8
192 17.1 12.7 19.1

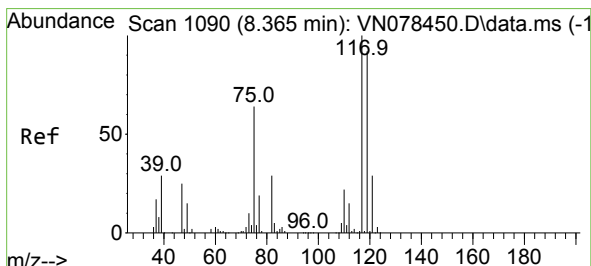
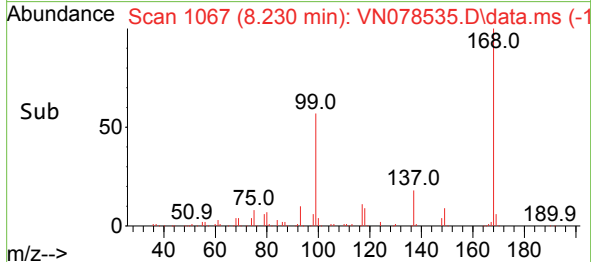
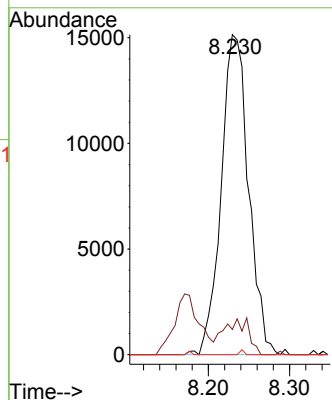
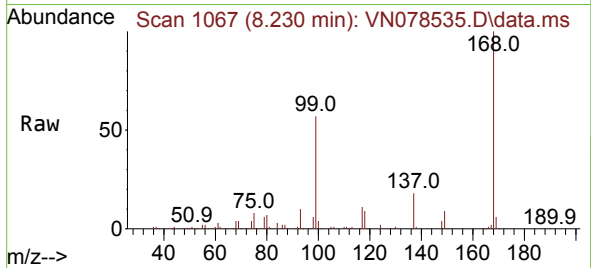




#36
1,1-Dichloropropene
Concen: 4.641 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

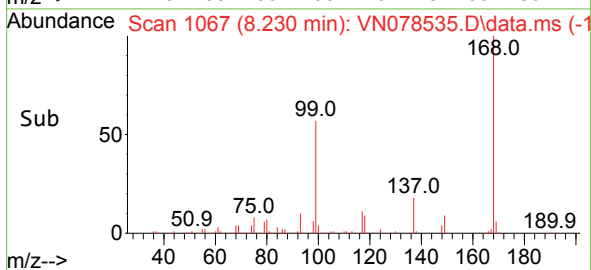
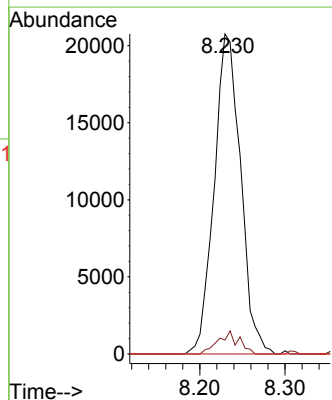
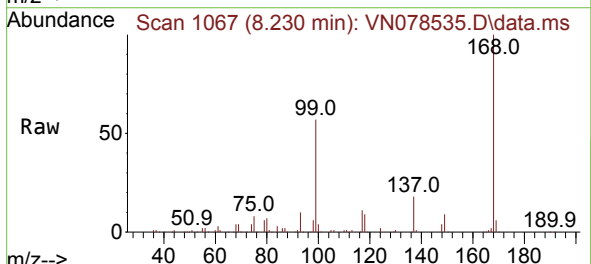
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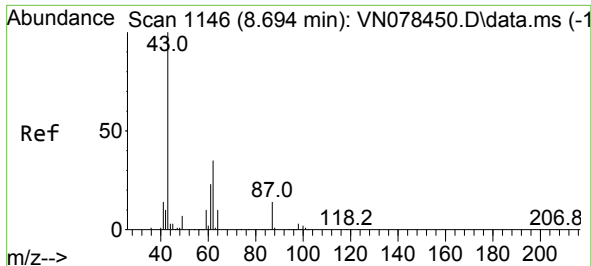
Tgt Ion: 75 Resp: 35478
Ion Ratio Lower Upper
75 100
110 10.2 19.1 57.3#
77 0.2 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 5.376 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.135 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 117 Resp: 44665
Ion Ratio Lower Upper
117 100
119 4.3 77.3 115.9#
121 0.0 23.3 34.9#

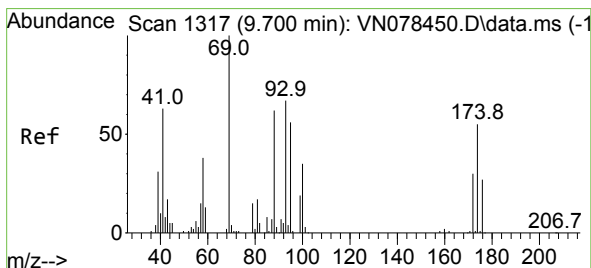
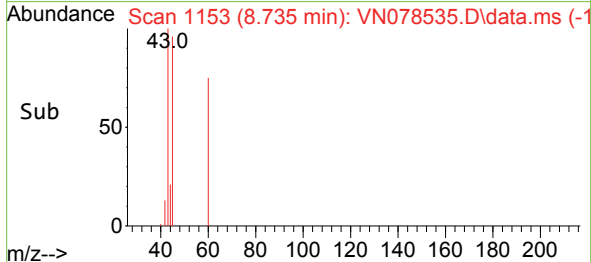
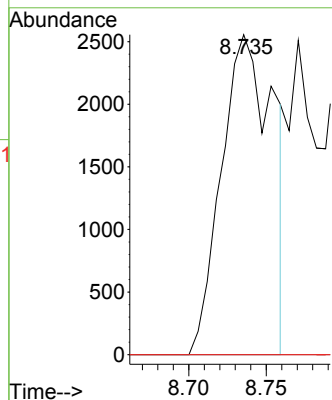
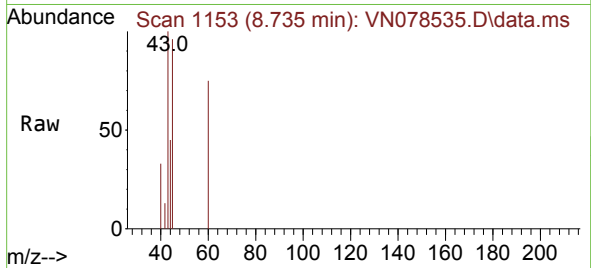




#43
Isopropyl Acetate
Concen: 0.566 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

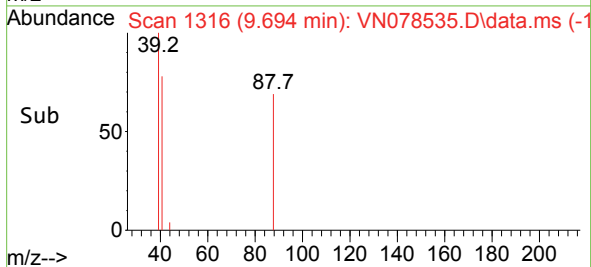
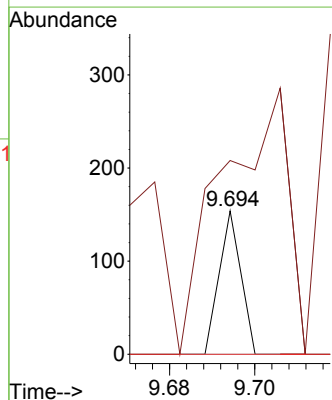
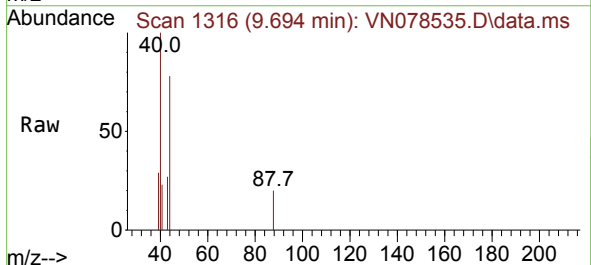
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

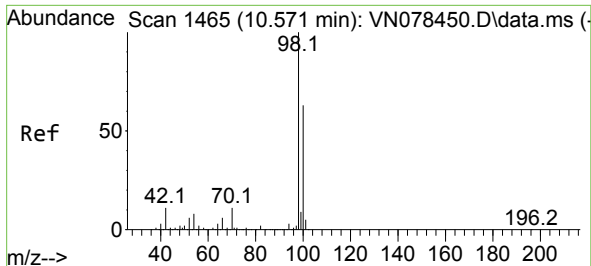
Tgt Ion: 43 Resp: 5935
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#49
1,4-Dioxane
Concen: 0.509 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 568.5 17.0 25.6#
58 0.0 47.0 70.4#

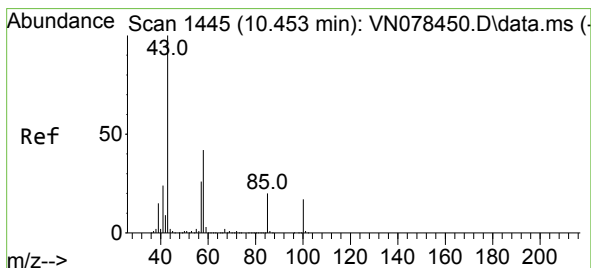
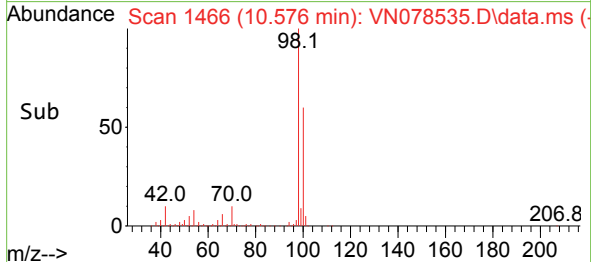
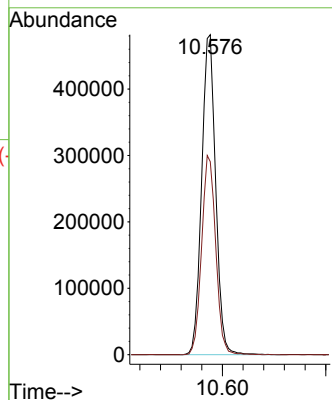
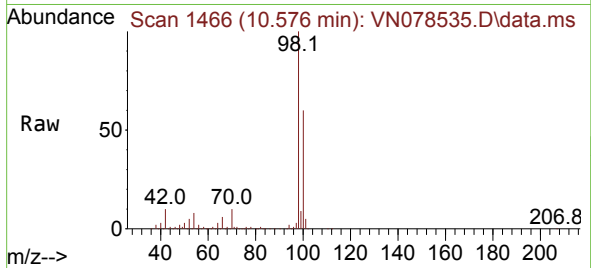




#50
Toluene-d8
Concen: 45.251 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

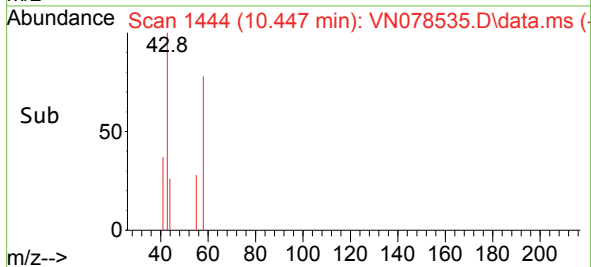
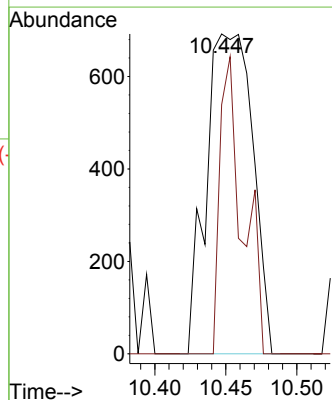
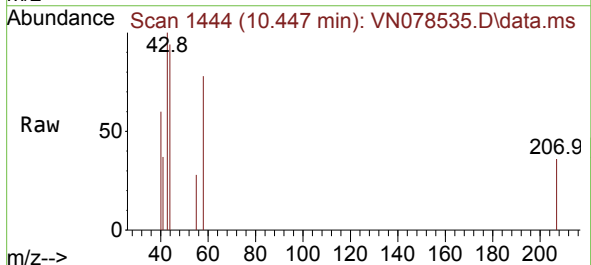
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

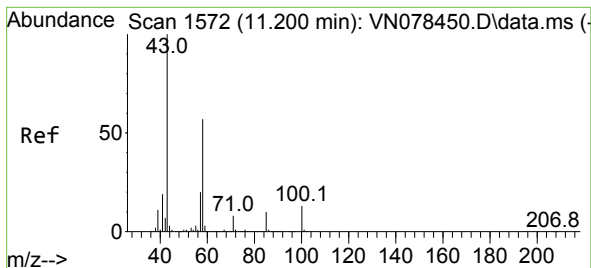
Tgt Ion: 98 Resp: 905037
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.253 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 43 Resp: 1580
Ion Ratio Lower Upper
43 100
58 45.1 36.6 54.8

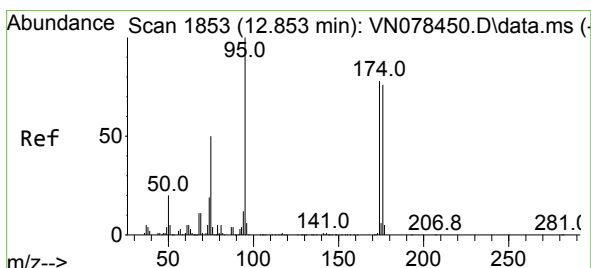
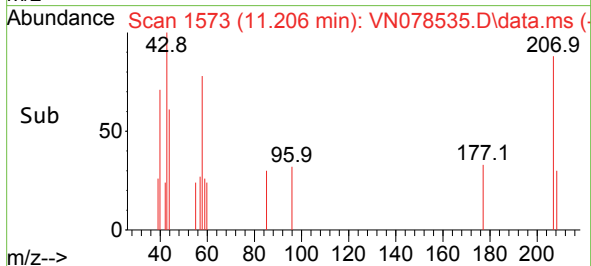
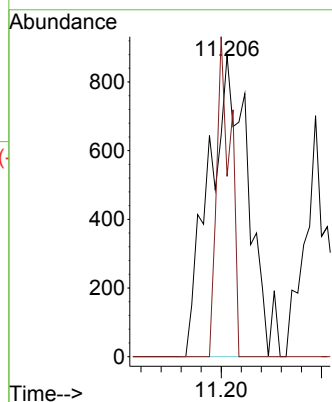
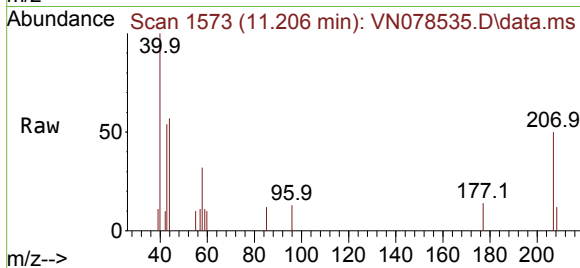




#59
2-Hexanone
Concen: 0.541 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

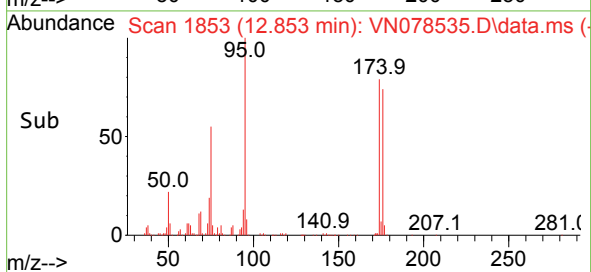
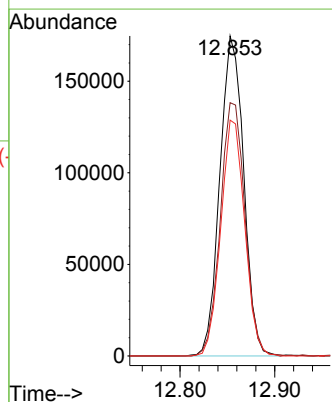
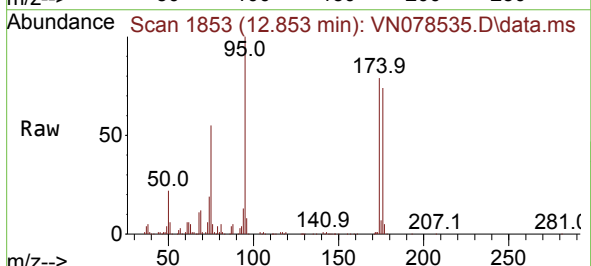
Instrument :
MSVOA_N
ClientSampleId :
VN0717WBL01

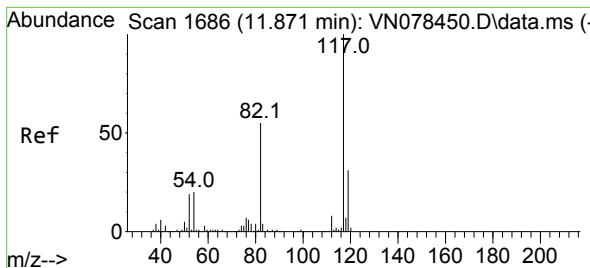
Tgt Ion: 43 Resp: 2400
Ion Ratio Lower Upper
43 100
58 37.8 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 49.672 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078535.D
Acq: 17 Jul 2023 11:32

Tgt Ion: 95 Resp: 306008
Ion Ratio Lower Upper
95 100
174 81.7 0.0 143.8
176 74.0 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBL01

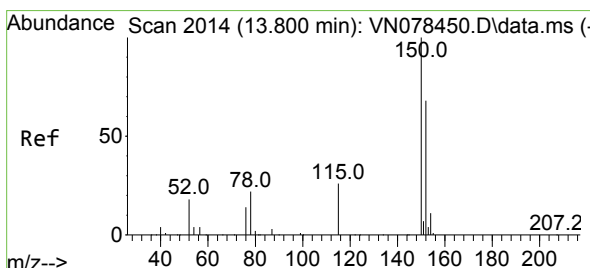
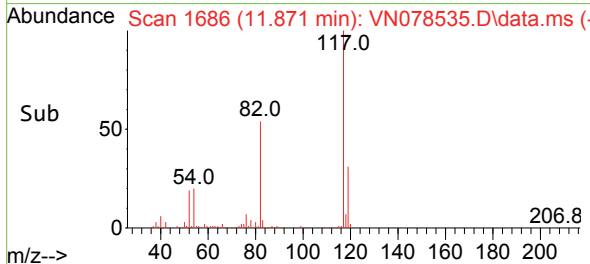
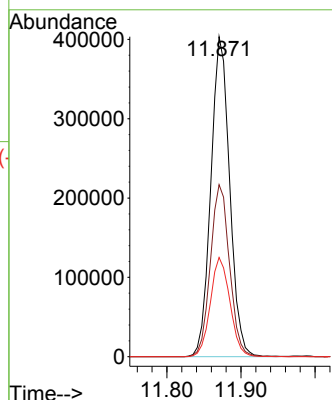
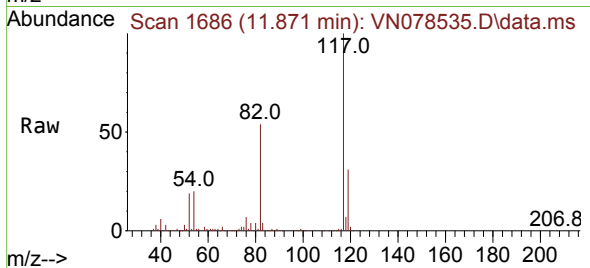
Tgt Ion:117 Resp: 711675

Ion Ratio Lower Upper

117 100

82 53.8 44.0 66.0

119 31.0 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

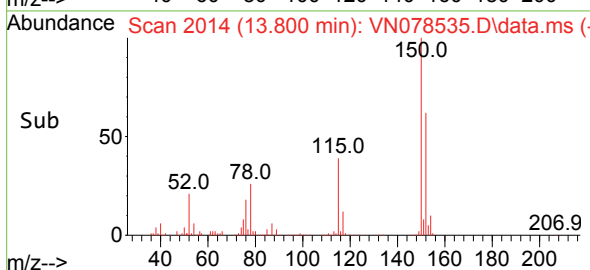
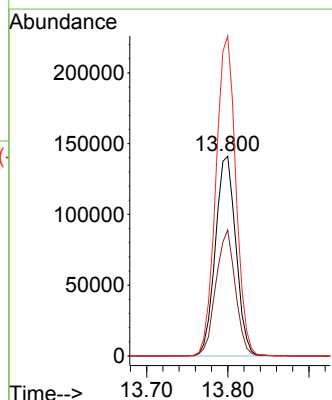
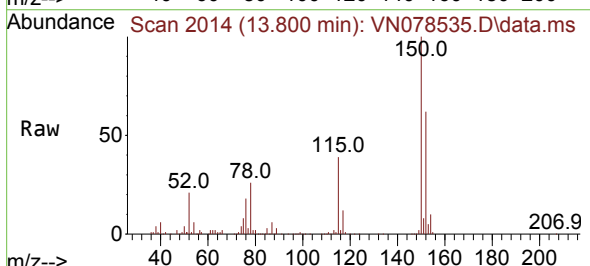
Tgt Ion:152 Resp: 248261

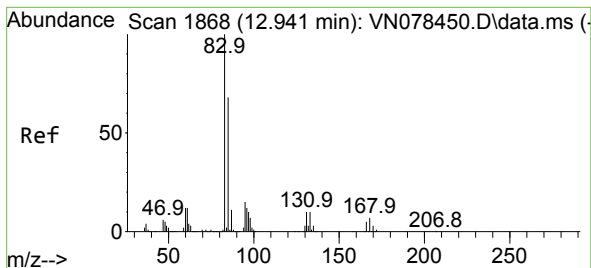
Ion Ratio Lower Upper

152 100

115 60.0 32.3 96.8

150 156.0 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBL01

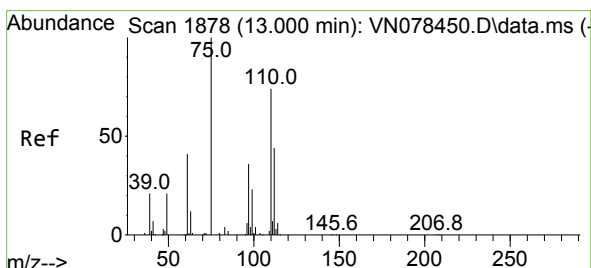
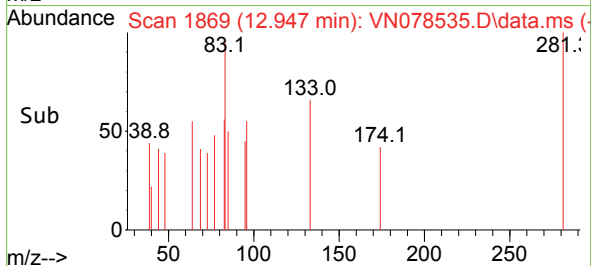
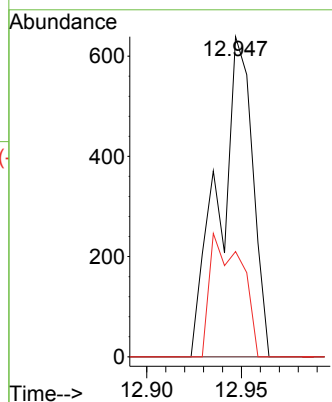
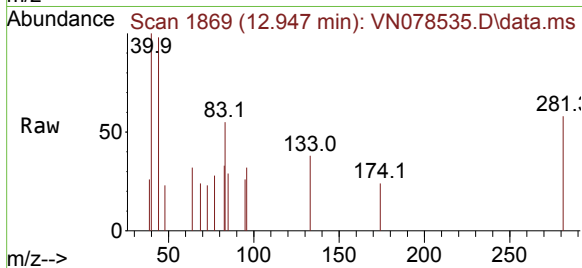
Tgt Ion: 83 Resp: 781

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 36.4 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 27.931 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078535.D

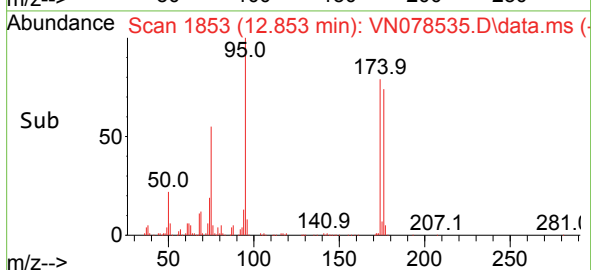
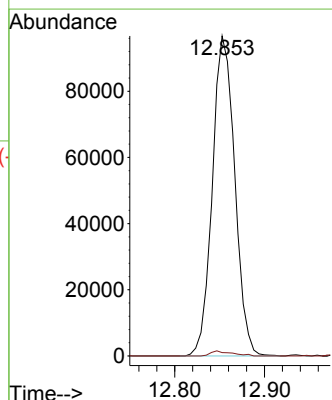
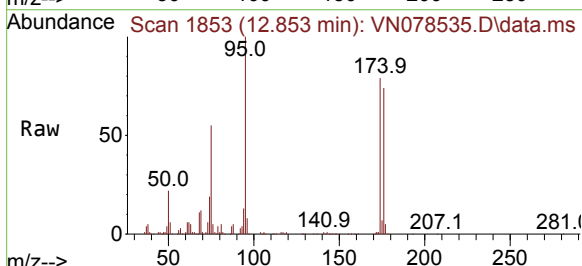
Acq: 17 Jul 2023 11:32

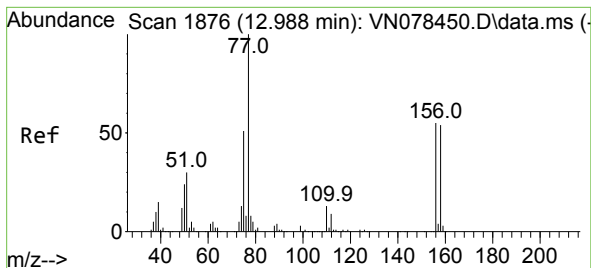
Tgt Ion: 75 Resp: 167607

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#





#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBL01

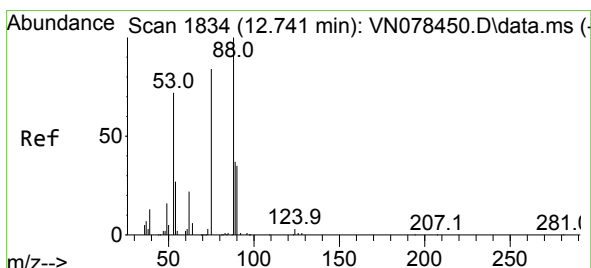
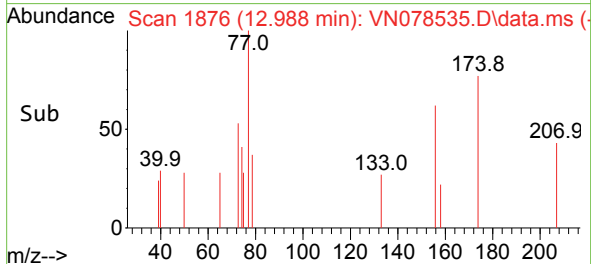
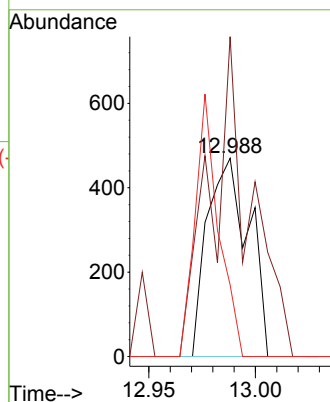
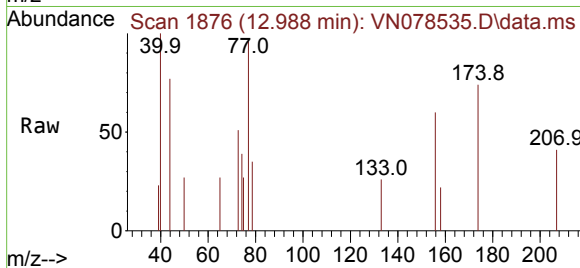
Tgt Ion:156 Resp: 637

Ion Ratio Lower Upper

156 100

77 152.1 107.7 323.3

158 74.7 48.4 145.3



#81

trans-1,4-Dichloro-2-butene

Concen: 73.397 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

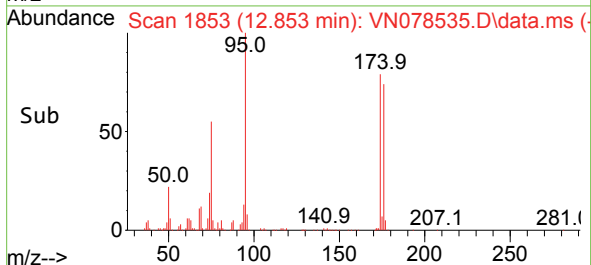
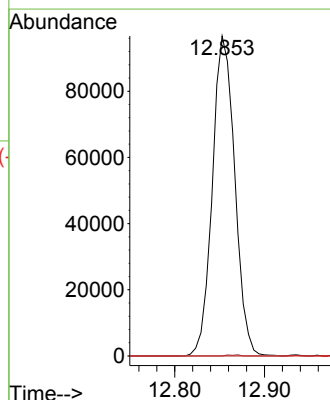
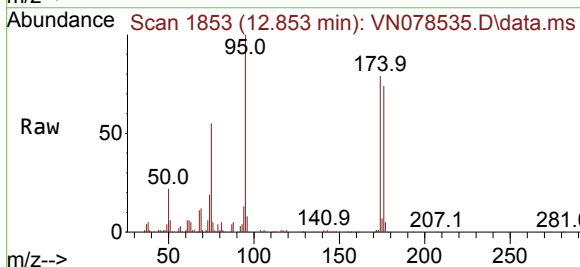
Tgt Ion: 75 Resp: 167607

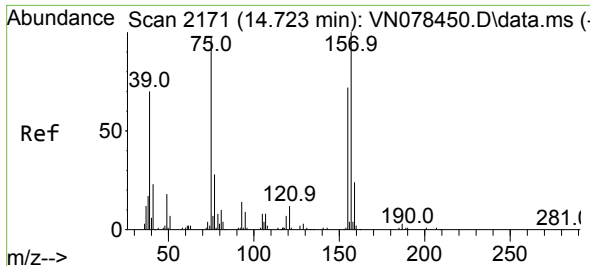
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.0 38.8 58.2#

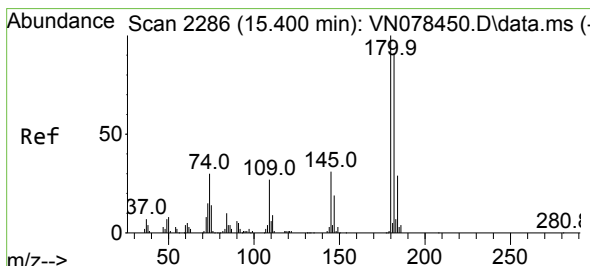
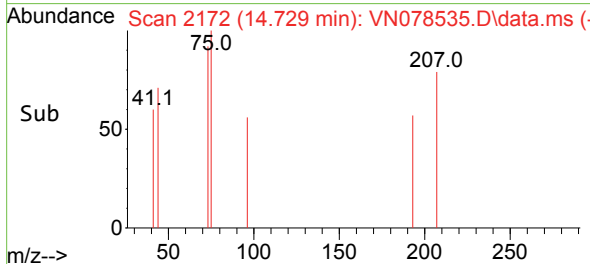
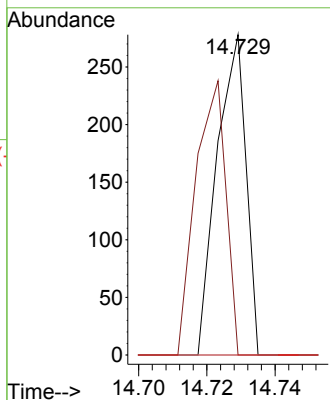
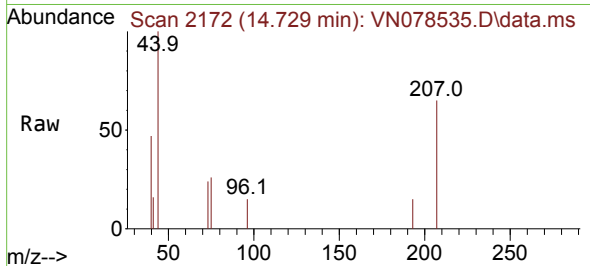




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.729 min Scan# 2171
 Delta R.T. 0.006 min
 Lab File: VN078535.D
 Acq: 17 Jul 2023 11:32

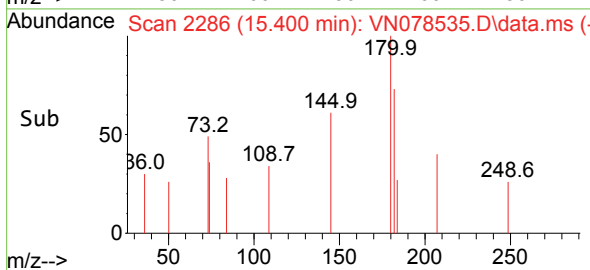
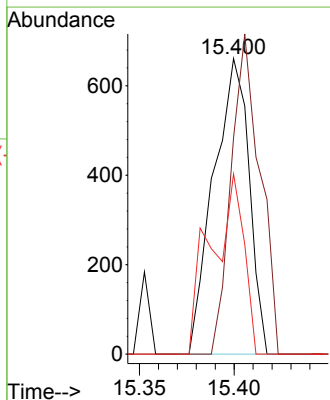
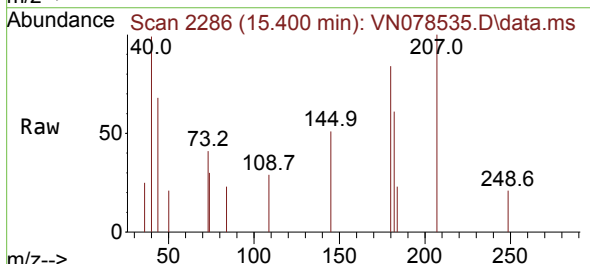
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBL01

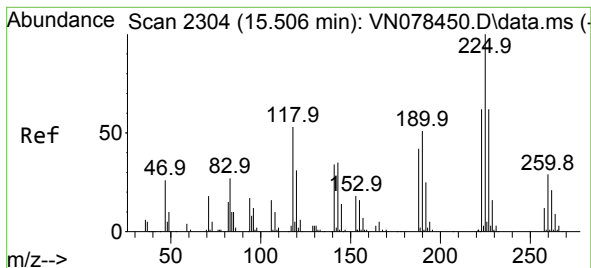
Tgt Ion: 75 Resp: 164
 Ion Ratio Lower Upper
 75 100
 155 89.0 39.1 117.2
 157 0.0 50.3 150.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.302 ug/l
 RT: 15.400 min Scan# 2286
 Delta R.T. -0.000 min
 Lab File: VN078535.D
 Acq: 17 Jul 2023 11:32

Tgt Ion: 180 Resp: 859
 Ion Ratio Lower Upper
 180 100
 182 87.8 46.1 138.2
 145 56.5 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBL01

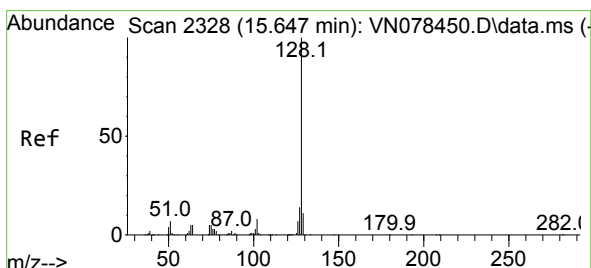
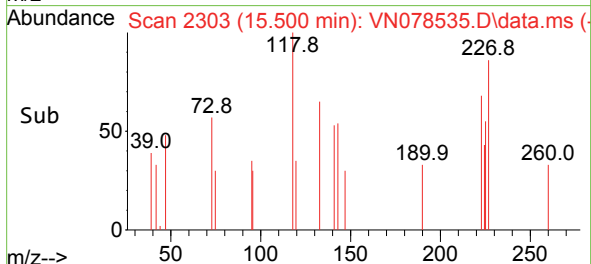
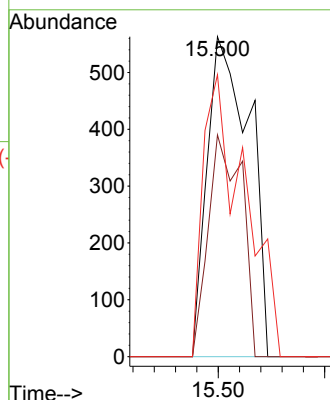
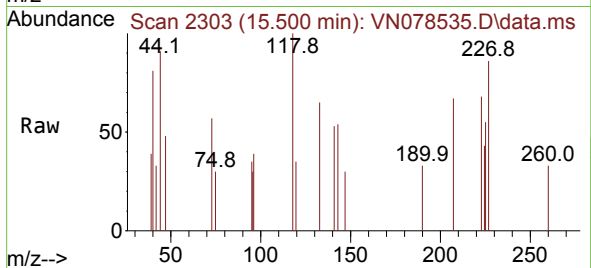
Tgt Ion:225 Resp: 776

Ion Ratio Lower Upper

225 100

223 55.0 31.3 93.8

227 86.2 31.9 95.9



#95

Naphthalene

Concen: 0.470 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN078535.D

Acq: 17 Jul 2023 11:32

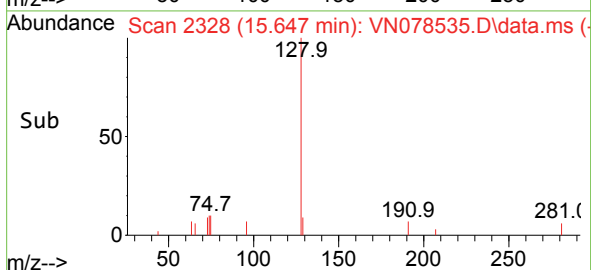
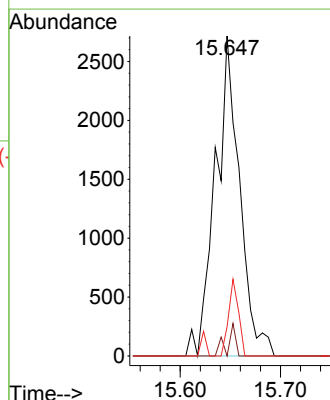
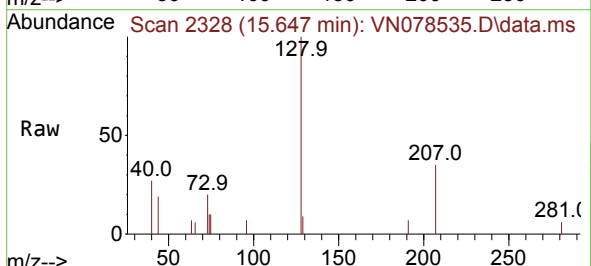
Tgt Ion:128 Resp: 4571

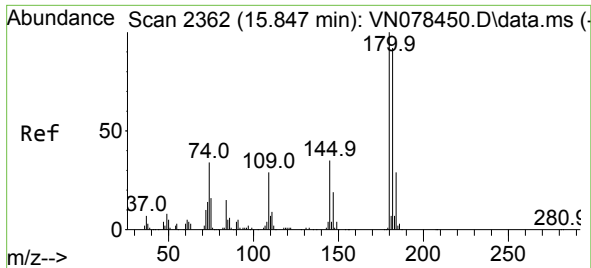
Ion Ratio Lower Upper

128 100

127 3.4 10.0 15.0#

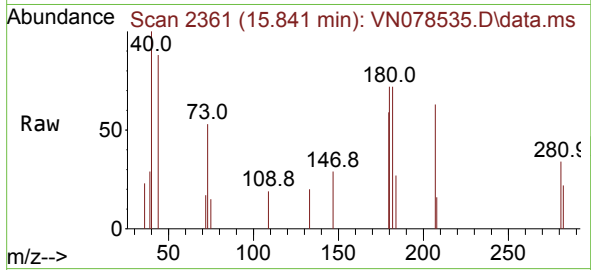
129 9.8 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.378 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN078535.D
 Acq: 17 Jul 2023 11:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBL01



Tgt Ion:	180	Resp:	1236
Ion Ratio	Lower	Upper	
180	100		
182	114.2	46.2	138.6
145	21.8	17.5	52.6

